

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	2	(electron near1 (emiss\$3 emit\$3)) with (n\$dop\$3 with diamond)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:11
L11	14	("5541423").URPN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/03/02 15:37
L12	9316	(semiconductor with (emit \$4 emission)) and cathode and dop\$4 and "n" and "p"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:38
L13	4447	L12 and @ad< "20040915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:39
L14	1130	L13 and ("Field emission" "field emitter" "FED" "electron emitter" "electron emission")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:42
L15	1	("3581151").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 15:51
L16	30	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") with ("PN junction" with light)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:53
L17	787	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") and ("PN junction" with light)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:56

L18	757	L17 not I16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:57
L19	454	L18 and @ad< "20040915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 15:59
L20	5081	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") and (junction with light)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 16:14
L21	8	("5146296" "5596186" "6541836" "6762473"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:16
L22	21462	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") and ("PN junction" with light or photon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:18
L23	1314	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") with ("PN junction" with light or photon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:18
L24	1177	L23 not 20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:18
L25	1177	L24 not I18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:19

L26	723	L25 and @ad<"20040915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 17:19
L27	14	("4331505" "4728851" "5138220" "5262649" "5543684" "5693947" "5780858" "5780960" "5821680" "6211608" "6362484" "6384400"). PN. OR ("6570165").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 17:51
L28	61	("4627008" "4874981" "5042058" "5335258" "5444242" "5563929" "5602894" "5717204" "5742658" "6259765"). PN. OR ("6333968").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/02 18:04
L29	22460	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") with ("illumination source" "light source" light \$emitting light\$emission)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 18:28
L30	1046	("Field emission" "field emitter" "FED" "electron emitter" "electron emission" "cold cathode") with ("illumination source" "light source" light \$emitting light\$emission) same (junction alliance assemblage joining union reunion combination) same (light photon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 18:31
L31	297	L30 and @ad<"20040915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 18:31
L32	2597	((313/495-497,311)or (445/24-25)).ccls. and ("illumination source" "light source" light \$emitting light\$emission)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 18:43

L33	201	((313/495-497,311)or (445/24-25)).ccls. and ("illumination source" "light source" light \$emitting light\$emission) with (junction alliance assemblage joining union reunion combination) same (light photon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 18:44
S608	7536	((313/495-497)or(445/24- 25)).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 16:59
S609	4134	S608 and (junct\$3 attachment assemblage bond combinat\$3 combine)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 17:01
S610	4248	S608 and (junct\$3 attachment assemblage bond combinat\$3 combine joint)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 17:01
S611	2506	S610 and @ad<"20040915"	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 17:02
S612	2213	(313/311).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 17:59
S613	573	S612 and @ad<"20040915"	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 17:59
S614	7	("5463271" "5541423" "5541423" "5888113" "6204597" "6267637" "6379210" "6445114" "6445114").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 18:01
S615	38	("5463271").URPN.	USPAT	OR	OFF	2011/03/01 18:02
S616	17	("5463271" "5703435" "5821680" "5852303" "5908699" "6127773" "6274881" "6376123" "6472814" "6554673"). PN. OR ("6861790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 20:56
S617	76	((natsuo near tatsumi)or (yoshiki near nishibayashi) or(takhiro near imai)).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:02
S618	13	("20030089912" "20040056580" "20040238809" "20050042743" "20050062389" "20050133735" "20050174030" "20050200261" "5341063" "5602439" "5844252" "6538368" "7307377").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:04

S619	12	("3581151" "5199918" "5410166" "5656883" "5679895" "5844252" "6132278" "6465941" "6762543" "6876136").PN. OR ("7307377").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:07
S620	35	("2960659" "3105166" "3150282" "3184659" "3214629" "3264533").PN. OR ("3581151").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:14
S621	12	("3581151" "5199918" "5410166" "5656883" "5679895" "5844252" "6132278" "6465941" "6762543" "6876136" "7307377").PN. OR ("7710013").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:27
S622	1	("20040056580").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/01 21:32
S623	2213	(313/311).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 21:38
S624	7536	((313/495-497)or(445/24-25)).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 21:41
S625	68	S624 and (diamond with (emit\$4 emiss\$3)) and (dop\$3 with (n\$typ "n")) and (dop\$3 with (p\$type "p"))	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 21:44
S626	12	("3581151" "5199918" "5410166" "5656883" "5679895" "5844252" "6132278" "6465941" "6762543" "6876136" "7307377").PN. OR ("7710013").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 21:45
S627	23	("3581151").URPN.	USPAT	OR	OFF	2011/03/01 21:46
S628	12	("3466485" "3497929" "5150019" "5557160").PN. OR ("5717278").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 22:02
S629	134	"313"/\$.ccls. and (diamond with (emit\$4 emiss\$3)) and (dop\$3 with (n\$typ "n")) and (dop\$3 with (p\$type "p"))	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 22:07
S630	77	S629 not S625	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 22:07

S631	7	("20040056580" "20040095051" "5289086" "5552613" "5844252" "6184611" "6267637").PN. OR ("7737614").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 22:12
S632	635	(diamond with (emit\$4 emiss\$3)) and (dop\$3 with (n\$typ "n")) and (dop\$3 with (p\$type "p"))	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 22:16
S633	339	S632 and @ad< "20040915"	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 22:17
S634	290	S633 not S630	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/01 22:18
S635	10	("5670788").URPN.	USPAT	OR	OFF	2011/03/01 22:29
S636	21	("5063421" "5117267" "5124779" "5132749" "5144380" "5243199" "5285078").PN. OR ("5541423").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/01 22:30
S637	1	("20090212703").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/01 22:49
S638	1	("20080284313").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/01 22:58
S639	6	((("20060244352") or ("3581151") or ("20020031931") or ("6958571") or ("20050042743") or ("20040056580"))).PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 11:13
S640	3	("6958571").URPN.	USPAT	OR	OFF	2011/03/02 11:25
S641	11521	(sumitomo near electric near industries).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:27
S642	5	S641 and (FED ("field emitter device" "electron emission")) with (PN schottky) same (junction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:28
S643	2	"11154455"	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:35

S644	19	("3581151" "5199918" "5410166" "5656883" "5679895" "5844252" "6132278" "6465941" "6762543" "6876136").PN	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:37
S645	197	(FED ("field emitter device" "electron emission")) with (PN schottky) same (junction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:42
S646	18211	(FED ("field emitter device" "electron emission") diode) with (PN schottky) same (junction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:55
S647	3295	(FED ("field emitter device" "electron emission") diode light \$emitting light\$emission) with (PN schottky) same (junction) same (light)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:55
S648	1995	S647 and @ad< "20040915"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/02 11:56
S649	1	("20020096994").PN.	US-PGPUB; USPAT	OR	OFF	2011/03/02 13:31
S650	21	("2002/0096994").URFPN.	USPAT	OR	OFF	2011/03/02 13:35

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	542	(diamond with (emit\$4 emiss \$3 cathode)) and crystal and dop\$4 and "n" and "p"	USPAT; UPAD	OR	ON	2011/03/02 15:14
L9	411	L8 and @ad< "20040915"	USPAT; UPAD	OR	ON	2011/03/02 15:14
L10	14	("5541423").URFPN.	USPAT	OR	OFF	2011/03/02 15:34

3/ 2/ 2011 6:50:33 PM

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